

Fernald, Long & Dunbar, no. 26,496; peaty limestone barrens, Savage Cove, August 1, 1924, no. 26,495; wet places, Flower Cove, July 3, 1921, *Mary E. Priest*; wet peaty limestone barrens, Flower Cove, July 27–30, 1924, *Fernald, Long & Dunbar*, nos. 26,492–26,494; peaty and turfy pockets in limestone barrens, Brig Bay, August 6, 1924, *Fernald, Long & Dunbar*, no. 26,497; dried brook-bed, barrens at base of serpentine tableland, Bonne Bay, August 27, 1910, *Fernald & Wiegand*, no. 3047; wet runs and boggy spots in limestone barrens, Ingornachoix Bay, August 1, 1910, *Fernald & Wiegand*, no. 3045; in damp marl, Table Mountain, Port à Port Bay, August 16, 1910, *Fernald & Wiegand*, no. 3046, July 26, 1921, *Mackenzie & Griscom*, no. 10,195. QUEBEC: Koksoak River, Ungava, August 23, 1896, *A. P. Low*, no. 13,983; mossy turf, Longue Pointe, Brest, July 31, 1915, *H. St. John*, no. 90,303. KEEWATIN: Ranken Inlet, August 30, 1910, *J. M. Macoun*, no. 79,214; Fullerton, September 4, 1910, *J. M. Macoun*, no. 79,213. MANITOBA: Churchill, July 30, 1910, *J. M. Macoun*, no. 79,212. ALBERTA: Rocky Mountains, *Drummond*; south of Wilcox Pass, August 1, 1908, *S. Brown*, no. 1402; Pipestone Valley, July 7, 1906, *S. Brown*, no. 428; Lake Louise, *J. M. Macoun et al.* COLORADO: head of Clear Creek, 1861, *Parry*, no. 359; Twin Lakes, *Wolf & Rothrock*, no. 937; Seven Lakes, August 14, 1901, *Clements*. BRITISH COLUMBIA: Grizzly Creek, Prairie Hills, July 26, 1907, *Butters & Holway*, no. 236. ALASKA: wet banks, Coal Harbor, Unga Island, Shumigan Islands, July 15, 1872, *M. W. Harrington*.

In some characters *Juncus albescens* is as near *J. biglumis* L. as *J. triglumis*. In *J. biglumis*, however, the lower bract is erect and more elongate; the perianth blackish; the anthers much smaller than in *J. albescens*; the capsules retuse and with purple-margined valves; and the seeds about 1 mm. long and with much shorter tails than in *J. albescens*.

GRAY HERBARIUM.

SUPPLEMENTARY REPORT ON DESMIDS OF CONNECTICUT.

C. J. HYLANDER.

IN a previous report (see RHODORA 24: 213–224, 236–241) I noted some 266 species and varieties of desmids from Connecticut. These were collected in 22 townships. Since the publication of that report, it has been possible to visit 58 additional townships, covering 3 new counties, and thus adding considerably to the number of desmid stations for the state. A complete list of the townships in which

there are now recorded desmid stations, includes every county in Connecticut. In detail, they are as follows:

LITCHFIELD COUNTY: Bethlehem, Canaan, Cornwall, Kent, Litchfield, Morris, Plymouth, Salisbury, Thomaston, Warren, Washington, Watertown.

HARTFORD COUNTY: Bristol, Glastonbury, Plainville, New Britain, Southington, Suffield.

TOLLAND COUNTY: Andover, Bolton, Coventry, Ellington, Somers, Tolland, Union.

WINDHAM COUNTY: Ashford, Brooklyn, Canterbury, Chaplin, Eastford, Killingly, Plainfield, Pomfret, Putnam, Sterling, Thompson, Windham, Woodstock.

FAIRFIELD COUNTY: Greenwich, Monroe, Newtown.

NEW HAVEN COUNTY: Ansonia, Bethany, Branford, Cheshire, Derby, Guilford, Hamden, Madison, Middlebury, Meriden, Naugatuck, New Haven, North Branford, North Haven, Orange, Oxford, Seymour, Southbury, Wallingford, Waterbury, Woodbridge.

MIDDLESEX COUNTY: Clinton, Essex, East Haddam, Haddam, Killingworth, Saybrook.

NEW LONDON COUNTY: Bozrah, Griswold, Groton, Lebanon, Ledyard, Lisbon, Montville, North Stonington, Old Lyme, Preston, Salem, Voluntown.

In addition to recording new stations for desmids reported in the previous paper, this report includes 35 additional species, varieties and forms, for Connecticut. They are distributed among the different genera as follows: 12, *Staurastrum*; 8, *Cosmarium*; 3, *Closterium*; 3, *Micrasterias*; 3, *Euastrum*; 2, *Penium*; and one each of *Sphaeroszoma*, *Arthrodesmus*, *Cylindrocystis* and *Hyalotheca*.

As in the previous report, an asterisk indicates that the plant is new to Connecticut; two asterisks, that it is new to North America; and a dagger, that it is known only from North America.

SPIROTAENIA Bréb.

S. CONDENSATA Bréb. Ledyard.

MESOTAENIUM Näg.

M. MACROCOCCUM (Kütz.) Roy & Biss. Salem.

CYLINDROCYSTIS Menegh.

*C. CRASSA DeBary. Haddam.

NETRIUM Näg.

N. DIGITUS (Ehrenb.) Itzigs. & Rothe. Derby, Griswold, Kent, Lebanon, Ledyard, Oxford, Plainfield, Salem, Somers, Wallingford, Woodstock.

N. DIGITUS var. *CONSTRICTUM* W. & G. S. West. Tolland.

PENIUM Bréb.

**P. CUCURBITINUM* Biss. Salem.

**P. CRUCIFERUM* (DeBary) Wittr. Salem.

P. MARGARITACEUM (Ehrenb.) Bréb. Salisbury, Tolland.

P. NAVICULA Bréb. Ashford, East Haddam, Griswold, Killingly, Voluntown, Woodbridge.

CLOSTERIUM Nitzsch.

C. ABRUPTUM West. Woodstock.

**C. ARCHERIANUM* Cleve. Union.

C. COSTATUM Corda. Ledyard.

C. CYNTHIA DeNot. Bozrah.

C. DIANA Ehrenb. Ansonia, Canaan, Cheshire, Cornwall, Montville, North Haven, Oxford, Old Lyme, Plainfield, Saybrook, Voluntown, Wallingford.

C. DIDYMOTOCUM Corda. Woodstock.

C. EHRENBERGII Menegh. Union, Voluntown.

C. INTERMEDIUM Ralfs. Ansonia, Bolton, East Haddam, New Britain, Saybrook, Tolland.

C. INCURVUM Bréb. Southbury.

C. JENNERI Ralfs. Griswold.

**C. GRACILE* v. *ELONGATUM* W. & G. S. West. Preston.

C. KUTZINGII Bréb. Bolton, Cheshire, Montville, Salem, Voluntown, Waterbury.

C. LEIBLEINII Kütz. Cornwall, Ledyard.

C. LIBELLULA Focke. Ashford, Union, Waterbury.

C. LINEATUM Ehrenb. Bolton, Groton, Lisbon, Woodstock.

C. LUNULA (Müll.) Nitzsch. Cheshire, Old Lyme.

C. MONILIFERUM (Bory) Ehrenb. Ansonia, Brooklyn, Cheshire, Derby, East Haddam, Groton, Glastonbury, Kent, Ledyard, Lisbon, Meriden, Montville, New Britain, Naugatuck, Saybrook, Southbury, Thompson.

C. PSEUDODIANA Roy. Lebanon, Griswold.

- **C. PARVULUM* var. *ANGUSTATUM* W. & G. S. West. Southbury.
C. PRONUM Bréb. Cheshire, Southbury.
C. PARVULUM Näg. Greenwich, Putnam, Wallingford.
C. RALFSII var. *HYBRIDUM* Rabenh. Cheshire, Putnam.
C. ROSTRATUM Ehrenb. Bozrah, Cheshire, East Haddam.
C. SETACEUM Ehrenb. Haddam, Plainfield, Voluntown.
C. TOXON West. Ashford, Ellington, Voluntown.
C. ULNA Focke. Old Lyme, Oxford, Waterbury.
C. VENUS Kütz. Ansonia, Ashford, Bolton, Glastonbury, Haddam, North Haven, Plainfield, Lisbon, Lebanon, Salem, Sterling, Seymour, Southbury, Tolland, Union, Voluntown, Waterbury, Wallingford, Woodstock.

DOCIDIUM Bréb.

- D. BACULUM* (Bréb.) DeBary. Waterbury.

PLEUROTAEINIUM Näg.

- P. CORONATUM* (Bréb.) Rabenh. Voluntown.
P. NODOSUM (Bailey) Lund. Lebanon, Mountville, Tolland.
P. TRABECULA (Ehrenb.) Näg. Ansonia, Bolton, Canterbury, Cheshire, Eastford, Groton, Haddam, Ledyard, Meriden, New Britain, North Stonington, Old Lyme, Plainfield, Somers, Sterling, Southbury, Tolland.

TRIPLOCERAS Bailey.

- T. GRACILE* Bailey. Ledyard, North Stonington, Union.

TETMEMORUS Ralfs.

- T. BREBISSONII* (Menegh.) Ralfs. Union.

EUASTRUM Ehrenb.

- E. ANSATUM* Ralfs. Ashford, Oxford.
E. BIDENTATUM Näg. Bolton, Brooklyn, East Haddam, Greenwich, Ledyard, Lebanon, Plainfield, Putnam, Salem, Sterling, Tolland, Voluntown, Woodstock.
E. BINALE (Turp.) Ehrenb. Bozrah, Cheshire, Eastford, East Haddam, Essex, Lisbon, Plainfield, North Stonington, Seymour, Waterbury, Woodbury.
E. BINALE f. *GUTWINSKII* Schmidle. Bolton, Canterbury.
 **E. BINALE* var. *RETUSUM* West. Sterling.
 **E. CRASSUM* (Bréb.) Kütz. Ashford, Lebanon, Plainfield, Salem.

- E. EVOLUTUM* var. *INTEGRIOUS* W. & G. S. West. Plainfield.
E. GEMMATUM Ralfs. Ashford.
E. INSULARE (Wittr.) Roy. Plainfield, Salem, Waterbury.
E. OBLONGUM (Grev.) Ralfs. Ledyard, Lebanon, Tolland.
E. PICTUM Borg. Ashford, Ellington, Griswold, Oxford, Putnam, Seymour, Tolland.
 **E. SINUOSUM* var. *REDUCTUM* W. & G. S. West. Lebanon.
E. VERRUCOSUM Ehrenb. Bolton, Woodstock.

MICRASTERIAS Ag.

- M. AMERICANA* (Ehrenb.) Ralfs. Groton, Woodstock, Voluntown
M. AMERICANA var. *BOLDTII* Gutw. Old Lyme, Wallingford.
M. APICULATA (Ehrenb.) Menegh. Voluntown.
 **M. APICULATA* var. *FIMBRIATA* (Ralfs) Nordst. Eastford.
M. CRUX-MELITENSIS (Ehrenb.) Hass. Wallingford.
M. DENTICULATA Bréb. Bolton, Ledyard, Tolland.
M. LATICEPS Nordst. East Haddam, Lebanon, Union, Voluntown, Waterbury, Woodbury.
M. MURICATA (Bailey) Ralfs. Ashford.
 **M. MAHABULESHWARENSIS* Hobs. North Stonington.
 **M. PINNATIFIDA* (Kütz.) Ralfs. Bolton, Union.
M. RADIATA Hass. Bolton, Lisbon, Somers, Woodstock.
M. ROTATA (Grev.) Ralfs. Griswold, Lebanon, Salem.
M. SOL (Ehrenb.) Kütz. Eastford, Ledyard, Southbury, Waterbury.
M. TRUNCATA (Corda) Bréb. Bolton, Salem, Tolland.

COSMARIUM Corda.

- C. BOTRYTIS* Menegh. East Haddam, North Haven.
 **C. BREBISSONII* Menegh. Ashford, North Stonington.
C. CONTRACTUM Kirch. Ansonia, Bolton, Warren, Waterbury.
C. BROOMEI Thwaites. Derby.
C. CUCUMIS Corda. Ledyard.
 **C. CYCLICUM* Lund. Union.
C. DENTATUM Wolle, North Stonington.
 **C. DEPRESSUM* v. *ACHONDRUM* (Boldt) W. & G. S. West. Ashford, Waterbury.
C. GALERITUM Nordst. Waterbury.
C. GRANATUM Bréb. Greenwich, Warren.

- †**C. ELOISIANUM* v. *DEPRESSUM* W. & G. S. West. Voluntown.
C. HAMMERI Reinsch. Bolton, Cornwall, North Haven, Somers.
C. MENEGHINII Bréb. Waterbury.
 **C. MARGARITATUM* (Lund.) Roy & Biss. Oxford, Union.
C. MONILIFORME Ralfs. Ledyard.
C. OVALE Ralfs. Ansonia, Derby, Lebanon, Preston, Tolland, Union, Waterbury.
C. ORNATUM Ralfs. Ashford, Ellington, Eastford, Haddam, Ledyard, Salem, Thompson, Tolland.
 **C. OBSOLETUM* (Hantzsch) Reinsch. Salem.
C. PYRAMIDATUM Bréb. Bolton, Ledyard.
C. PSEUDOCONNATUM Nordst. Ashford, Bolton, Derby, Lebanon, Old Lyme, Preston, Salem, Tolland, Union, Waterbury.
C. PORTIANUM Arch. Ellington, East Haddam, Lisbon, Ledyard, North Haven, Salem, Tolland, Waterbury.
C. PSEUDOPYRAMIDATUM Lund. Cornwall, Ledyard, Oxford, Old Lyme.
C. PUNCTULATUM Bréb. Bolton, Cornwall, Essex, Glastonbury, Haddam, Ledyard, Salem, Waterbury.
C. PYGMAEUM Arch. Bolton.
C. PSEUDOBROOMEI Wolle. Eastford.
 **C. PSEUDONITIDULUM* v. *VALIDUM* W. & G. S. West. East Haddam.
C. QUADRUM Lund. Bozrah.
 **C. REGNESII* Reinsch. Oxford.
C. TUMIDUM Lund. Tolland.
C. TURPINII Bréb. Warren, Wallingford.
C. UNDULATUM Corda. Ashford, Bolton, Glastonbury, Lebanon, Salem, Thompson, Waterbury, Woodstock.

XANTHIDIUM Ehrenb.

- X. ANTILOPAEUM* (Bréb.) Kütz. Chaplin, Ellington, Griswold, Seymour, Tolland, Voluntown, Waterbury, Woodstock.
X. ANTILOPAEUM var. *POLYMAZUM* Nordst. Salem, Lisbon.
X. ANTILOPAEUM var. *MINNEAPOLIENSE* Wolle. Woodstock.
X. CRISTATUM Bréb. Bolton, Griswold, Plainfield, Southbury, Tolland, Waterbury.

ARTHRODESMUS Ehrenb.

- A. CONVERGENS* Ehrenb. Bolton, Lisbon, Wallingford, Waterbury, Windham, Woodstock.

**A. INCUS* (Bréb.) Hass. Waterbury.

A. OCTOCORNIS Ehrenb. Lisbon, Salem, Somers, Waterbury.

STAURASTRUM Meyen.

S. ACICULIFERUM (Borge) West. Bolton.

S. ARCTISCON (Ehrenb.) Lund. Bolton.

S. AVICULA Bréb. Bolton, Chaplin, Pomfret, Wallingford, Woodstock.

**S. ALTERNANS* Bréb. Glastonbury, Southbury, Somers, Wallingford.

***S. BREVISPINUM* f. *MAJUS*. W. & G. S. West. Bolton.

S. CRENULATUM Näg. Canterbury, Derby, North Haven, Seymour, Sterling, Tolland, Union, Waterbury, Warren.

S. CUSPIDATUM Bréb. Warren, Woodstock.

S. CYRTOCERUM Bréb. Bolton, East Haddam, Wallingford.

S. CORONULATUM Wolle. Tolland.

**S. CERASTES* Lund. Oxford.

S. DILATATUM Ehrenb. North Haven, Ledyard.

**S. DICKIEI* var. *CIRCULARE* Turn. Bolton, Warren.

S. DEJECTUM Bréb. Bolton, Lebanon, Somers, Voluntown, Waterbury.

S. EUSTEPHANUM (Ehrenb.) Ralfs. Bolton, Wallingford, Woodstock.

S. FURCIGERUM Bréb. Bolton.

S. GRANDE Bulph. Chaplin, Union.

**S. GLADIOSUM* Turn. Lebanon, Salem, Waterbury, Woodstock.

S. GRACILE Ralfs. Ledyard, Woodbury.

**S. GRACILE* var. *BILBOSUM* West. Putnam.

**S. GRACILE* var. *CYATHIFORME* W. & G. S. West. Bolton.

**S. LACONIENSE* W. & G. S. West. Lisbon.

S. LEPTOCLADUM Nordst. Groton.

**S. MAAMENSE* Arch. Waterbury.

S. MUTICUM Bréb. Seymour.

**S. ORBICULARE* Ralfs. Tolland.

S. OPHIURA Lund. Ledyard, Tolland.

S. PUNCTULATUM Bréb. Cornwall, Greenwich, Glastonbury, Lisbon, Lebanon, Plainville, Tolland.

**S. PILOSUM* (Näg.) Arch. Oxford.

**S. PSEUDOTETRACERUM* (Nordst.) W. & G. S. West. Bolton.

S. SEBALDI Reinsch. Wallingford.

S. SPONGIOSUM Bréb. Bolton.

S. TETRACERUM (Kütz.) Ralfs. Montville, Plainfield, Salem.

S. TUMIDUM Bréb. Ashford, Voluntown.

SPHAEROZOSMA Corda.

**S. EXCAVATUM* var. *SUBQUADRATUM* W. & G. S. West. Waterbury.

ONYCHONEMA Wallich.

O. FILIFORME (Ehrenb.) Roy & Biss. Bolton, Union.

O. LAEVE Nordst. Bolton, Plainfield, Woodstock.

SPONDYLIUM Bréb.

S. PAPILLOSUM W. & G. S. West. Lebanon, Lisbon, Plainville, Plainfield, Somers, Southbury, Waterbury, Wallingford, Windham.

S. PYGMAEUM (Cooke) West. Ashford, Bolton, Eastford, Plainfield, Salem, Woodstock.

HYALOTHECA Ehrenb.

H. DISSILIENS (Smith) Bréb. Ansonia, Andover, Bolton, Coventry, East Haddam, Glastonbury, Griswold, Lisbon, Ledyard, New Britain, Old Lyme, Preston, Plainfield, Voluntown, Windham.

**H. MUCOSA* (Mert.) Ehrenb. Windham.

DESMIDIUM Ag.

D. APTOGONUM Bréb. Bolton, Ledyard.

D. BAILEYI (Ralfs) Wolle. Ledyard, Lisbon, Plainfield, Somers, Tolland.

D. CYLINDRICUM Grev. Ellington, Preston, Windham.

D. SWARTZII Ag. Bolton, Ellington, Canterbury, Lebanon, Lisbon, Old Lyme, Preston, Plainfield, Tolland, Voluntown, Wallingford.

OSBORN BOTANICAL LABORATORY, *Yale University*.